

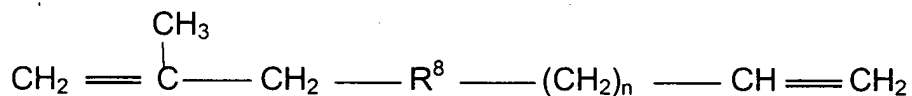
## IN THE CLAIMS:

1-11 (previously canceled)

12. (currently amended) A poly(vinyl chloride)-g-non-conjugated diene composition comprising:

the reaction product of a poly(vinyl chloride) solute and at least one non-conjugated hydrocarbon diene solute having a total from 5 to about 18 carbon atoms, wherein said at least one non-conjugated hydrocarbon diene is either a linear chain or a branched chain.

13. (previously amended) The poly(vinyl chloride)-g-non-conjugated diene composition according to claim 12, wherein said at least one non-conjugated hydrocarbon diene has the formula:



wherein  $\text{R}^8$  is nonexistent or an alkylene having from 1 to about 2 carbon atoms, and wherein  $n$  is 0 or an integer from 1 to about 10.

14. (previously amended) The poly(vinyl chloride)-g-non-conjugated diene composition according to claim 13, wherein said at least one non-conjugated hydrocarbon diene is 2-methyl-1,5-hexadiene.

15. (previously amended) The poly(vinyl chloride)-g-non-conjugated diene composition according to claim 12, wherein said at least one non-conjugated hydrocarbon diene is grafted on the backbone of said poly(vinyl chloride), wherein said at least one non-conjugated hydrocarbon diene is an oligomer having from 2 to

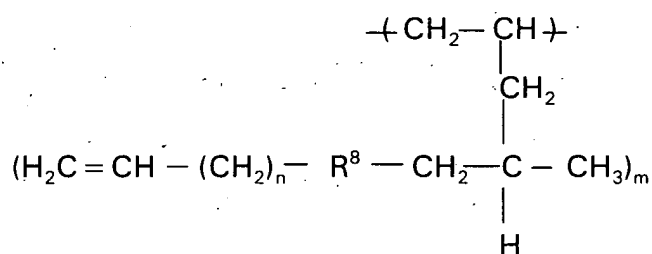
about 20 repeat groups, and wherein the number of said grafted oligomers per poly(vinyl chloride) chain is from 1 to about 20.

16. (previously amended) The poly(vinyl chloride)-g-non-conjugated diene composition according to claim 15, wherein said repeat groups of said at least one non-conjugated hydrocarbon diene oligomer have an unsaturated end group.

17-53 (previously canceled)

54. (previously amended) A poly(vinyl chloride)-g-non-conjugated diene copolymer comprising:

a poly(vinyl chloride) graft copolymer chain having at least one repeat unit of the formula:



per chain of said graft copolymer, wherein R<sup>8</sup> is nonexistent or an alkylene having from 1 to about 2 carbon atoms, wherein n is 0 or an integer from 1 to about 10, and wherein m is an integer from 1 to about 20, said pendant portion of said formula is derived from a non-conjugated diene.

55. (previously amended) A poly(vinyl chloride)-g-non-conjugated diene copolymer according to claim 54, wherein 1 to about 20 of said repeat units are present per said poly(vinyl chloride) graft copolymer chain.

56. (previously amended) A poly(vinyl chloride)-g-non-conjugated diene copolymer according to claim 55, wherein said pendant portion of said formula is derived from 2-methyl-1,5 hexadiene.

57. (previously amended) A poly(vinyl chloride)-g-non-conjugated diene copolymer according to claim 55, wherein  $m$  is about 3 to about 10 and wherein the number of said repeat units per said graft copolymer chain is from 1 to about 10.

58. (previously amended) A poly(vinyl chloride)-g-non-conjugated diene copolymer according to claim 57, wherein  $m$  is about 3 to about 7, and wherein the number of said repeat units per said graft copolymer chain is from 1 to about 3.

59. (previously amended) A poly(vinyl chloride)-g-non-conjugated diene copolymer according to claim 55, wherein  $m$  is about 3 to about 7, and wherein from 1 to about 10 of said repeat units are present per said poly(vinyl chloride) graft copolymer chain.

60. (previously amended) A poly(vinyl chloride)-g-non-conjugated diene copolymer according to claim 59, wherein from 1 to about 3 of said repeat units are present per said poly(vinyl chloride) graft copolymer chain.